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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/540,377	07/12/2005	Shizuo Kitahara	4670-0107PUS1	9771
2292 7590 07/14/2009 BIRCH STEWART KOLASCH & BIRCH			EXAMINER	
PO BOX 747	CH VA 22040 0747	JACKSON, MONIQUE R		
FALLS CHURCH, VA 22040-0747			ART UNIT	PAPER NUMBER
			1794	
			NOTIFICATION DATE	DELIVERY MODE
			07/14/2009	ELECTRONIC

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Notice of the Office communication was sent electronically on above-indicated "Notification Date" to the following e-mail address(es):

mailroom@bskb.com

	Application No.	Applicant(s)				
Office Action Symmetry	10/540,377	KITAHARA ET AL.				
Office Action Summary	Examiner	Art Unit				
	Monique R. Jackson	1794				
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the c	orrespondence address				
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DA - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period w - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be timular apply and will expire SIX (6) MONTHS from a cause the application to become ABANDONEI	Lely filed the mailing date of this communication. (35 U.S.C. § 133).				
Status						
1)⊠ Responsive to communication(s) filed on 23 Ju	ine 2009					
	· · · · · · · · · · · · · · · · · · ·					
·—	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is					
,— · · ·	closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.					
Disposition of Claims						
4)⊠ Claim(s) <u>14-22,24 and 25</u> is/are pending in the	4) Claim(s) 14-22,24 and 25 is/are pending in the application.					
4a) Of the above claim(s) is/are withdraw	4a) Of the above claim(s) is/are withdrawn from consideration.					
5) Claim(s) is/are allowed.						
6)⊠ Claim(s) <u>14-22,24 and 25</u> is/are rejected.						
7) Claim(s) is/are objected to.						
8) Claim(s) are subject to restriction and/or election requirement.						
Application Papers						
9)☐ The specification is objected to by the Examiner.						
10) ☐ The drawing(s) filed on is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.						
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).						
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.						
Priority under 35 U.S.C. § 119						
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 						
Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date 3/23/09.	4) Interview Summary Paper No(s)/Mail Da 5) Notice of Informal P 6) Other:	(PTO-413) ite				

Application/Control Number: 10/540,377 Page 2

Art Unit: 1794

DETAILED ACTION

1. Upon reconsideration, the finality of prior office action dated 3/23/09 has been withdrawn. Any inconvenience to the Applicant is regretted.

2. Claims 14-22 and 24-25 are pending in the application. The text of those sections of Title 35, U.S. Code not included in this action can be found in a prior Office action.

Claim Rejections - 35 USC § 103

Claims 14-22 and 24-25 are rejected under 35 U.S.C. 103(a) as being unpatentable over 3. JP 2003-004526 A (JP'526.) JP'526 teaches a molded panel comprising a molded resin panel and a metal deposition layer 5 of indium, tin, zinc, or mixture thereof, having a thickness of 10-50nm, formed thereon, wherein when the resin of the molded panel 1 is polypropylene (a nonpolar hydrocarbon), a cyclized rubber layer is preferably used as an adhesive or glue layer between the panel 1 and the deposition layer 5 (Abstract; Paragraph 0029; Figures.) JP'526 teaches that the deposition layer 5 can be formed by vacuum deposition or sputtering (Paragraph 0028.) Though JP'526 teaches a separate adhesive layer formed of the cyclized rubber layer, it is well established in the art that adhesive materials or adhesion promoting materials may be incorporated into the polymer substrate as opposed to, or in addition to, providing a separate layer of the adhesive material. Hence, it would have been obvious to one having ordinary skill in the art at the time of the invention to incorporate the cyclized rubber adhesive material into the polypropylene resin in the invention taught by JP'526, as an alternative means of improving adhesion of the subsequently applied deposition layer. With regards to the molecular weight, cyclization ratio, and gel amount of the cyclized rubber, though JP'526 fails to particularly disclose these properties of the cyclized rubber, as previously discussed, one having ordinary

Art Unit: 1794

experimentation to determine the optimum molecular weight, cyclization ratio, and gel amount based upon the desired properties of the resulting composition wherein these properties are known, result-effective variables that affect the mechanical properties of the final product. With regards to further functionalization of the rubber by incorporating functional groups, it is well established in the art that polar functional groups such as maleic anhydride can be grafted or introduced unto rubbers or olefin polymers to provide improved adhesion to subsequent coatings or layers, wherein the amount of the polar group is a result-effective variable that one skilled in the art would be motivated to determine by routine experimentation. Lastly, though JP'526 fails to teach an amorphous carbon film, as previously discussed, the Examiner takes the position that a thin amorphous carbon film is an obvious layer utilized in the art to provide improved barrier properties and surface protection to polymer films and would have been obvious at the time of the invention.

Response to Arguments

- 4. Applicant's arguments with respect to claims 14-22 and 24-25 have been considered but are most in view of the new ground(s) of rejection.
- 5. Applicant's submission of an information disclosure statement under 37 CFR 1.97(c) with the fee set forth in 37 CFR 1.17(p) on 4/22/09 prompted the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 609.04(b). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO

MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Monique R. Jackson whose telephone number is 571-272-1508. The examiner can normally be reached on Mondays-Thursdays, 10:00AM-5:00PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Callie Shosho can be reached on 571-272-1123. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.